

Message Text

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SUBJECT: CTB NEGOTIATIONS: TECHNICAL WORKINGGROUP
REPORT, FEBRUARY 16, 1978

CTB MESSAGE NO. 146

1. SUMMARY: AT TECHNICAL WORKING GROUP ON 16 FEBRUARY, SOFRONOV (USSR) INDICATED GENERAL CONCERN THAT MATERIAL ON INTERNAL SEISMIC INSTALLATIONS (ISI) PRESENTED IN WORKING GROUP BY US DID NOT SOLVE SPECIFIC ISSUE OF PREPARING AGREEMENT LANGUAGE. HE REPEATED HIS EARLIER REQUEST FOR A JUSTIFIED LIST OF STATION PARAMETERS TO BE AGREED UPON AND ASKED SEVERAL QUESTIONS ABOUT ILLUSTRATIVE LANGUAGE PROVIDED AND CHARACTERISTICS OF ISI'S. END SUMMARY.

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2. SOFRONOV RESPONDED TO US PRESENTATION ON ISI DESIGN BY EXPRESSING A GENERAL CONCERN THAT MATERIAL DID NOT PROVIDE A BASIS FOR WORKING OUT ALL NECESSARY LANGUAGE FOR AGREEMENT. HE REPEATED HIS EARLIER REQUEST THAT A LIST OF ISI CHARACTERISTICS BE PROVIDED THAT US THOUGHT SHOULD BE AGREED UPON, AS WELL AS A SCIENTIFIC JUSTIFICATION FOR THESE CHARACTERISTICS IN TERMS OF THE VERIFI-

CATION OBJECTIVES OF THE TREATY.

3. TURNING TO THE ILLUSTRATIVE LANGUAGE OF THE SEPARATE VERIFICATION AGREEMENT PROVIDED BY THE US DEL, SOFRONOV ASKED FOR CLARIFICATION OF SEVERAL POINTS. WHAT WAS MEANT SPECIFICALLY BY "AGREED DESIGN" IN PARAGRAPH ONE OF THE LANGUAGE ON ISI AND IN THE LANGUAGE ON THE JOINT CONSULTATIVE COMMISSION (JCC)? IN WHAT DETAIL SHOULD THE CHARACTERISTICS OF THE STATIONS BE SPECIFIED IN THE AGREEMENT? FOR EXAMPLE, WHY WAS IT NECESSARY TO SPECIFY THE DIMENSIONS OF THE BOREHOLE? SOFRONOV NOTED THAT THE JCC LANGUAGE PROPOSED STAGES IN THE DEVELOPMENT OF ISI'S AND THOUGHT THAT THIS CONTRADICTED OTHER PROPOSED LANGUAGE. HE ASKED WHAT METHODS OF COMMUNICATION OTHER THAN INTELSAT COULD BE PROPOSED. FINALLY, SOFRONOV ASKED THAT THE US SUGGEST A SPECIFIC LIST OF INTERNAL STATION LOCATIONS AND NUMBERS TO FILL OUT THE SUGGESTED ANNEX TO THE SEPARATE AGREEMENT.

4. SOFRONOV WENT ON TO ASK SEVERAL SPECIFIC QUESTIONS ON THE TECHNICAL MATERIAL PRESENTED BY THE US DEL. COULD US DEL EXPLAIN THE BANDWIDTH AND DYNAMIC RANGE CHARACTERISTICS OF THE SEISMOMETERS IN TERMS OF OBJECTIVES SET FOR ISI'S? WHY WERE THREE AXIS SEISMOMETERS REQUIRED? WOULD THE SENSITIVITY OF STATIONS BE ADJUSTED TO NOISE CONDITIONS AT THE SITE? WHAT ACCURACY WAS REQUIRED FOR
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STATION TIMING AND WHO WOULD CHECK AND ADJUST TIMING? SOFRONOV ASKED THAT MORE DETAILED INFORMATION ON THE AUTHENTICATOR LOGIC BE PROVIDED AND THAT IT BE EXPLAINED HOW IT COULD BE ASSURED THAT THE STATIONS COLLECTED ONLY SEISMIC DATA.

5. SOFRONOV SAID HIS LAST GROUP OF QUESTIONS WERE NECESSARY TO EXCLUDE ANY POSSIBILITY THAT ISI COULD BE USED AS "BLACK BOXES". HE ASKED THAT A LIST BE PROVIDED OF THE COMMANDS THAT COULD BE MADE TO THE STATION AND THE PROCEDURES FOR IMPLEMENTING THEM. HE SAID THAT SOME STATE OF HEALTH PARAMETERS MENTIONED (SUCH AS TEMPERATURE AND WIND VELOCITY) SEEMED UNNECESSARY, AND ASKED THAT A COMPLETE LIST, INCLUDING JUSTIFICATION, BE PROVIDED. FINALLY, SOFRONOV ASKED IF THE US DEL HAD CONSIDERED RECORDING SEISMIC DATA FOR A PERIOD OF DAYS AND USING THIS AS A BACKUP TO FILL IN LOSSES IN COMMUNICATION CHANNELS. THIS COULD MAKE THE FIFTEEN MINUTE DELAY LINE UNNECESSARY AND REDUCE THE DATA FLOW BY A FACTOR OF TWO OR FOUR.

6. TURNBULL, RYALL, AND STOKES (US) ANSWERED SOFRONOV'S TECHNICAL QUESTIONS, SAYING THAT JUSTIFICATIONS AND

ANSWERS TO QUESTIONS ON ILLUSTRATIVE LANGUAGE WOULD BE
PROVIDED LATER. WARNKE

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